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published by the Observatory during the last twenty-five years. Her diligence and patience were combined with great self-reliance and courage. She was a member of the Astronomical and Astrophysical Society of America, and of the Astronomical Society of France. The British Royal Astronomical Society made her an honorary member in 1906, and soon after, she was appointed Honorary Fellow in Astronomy of Wellesley College. Only a few months ago, the Astronomical Society of Mexico presented her with a gold medal for her discovery of new stars.

She left one son, Edward P. Fleming, who graduated from the Massachusetts Institute of Technology in 1901, and is now a mining engineer in Chile.

Of a large-hearted, sympathetic nature, and keenly interested in all that pertains to life, she won friends easily, while her love of her home and unusual skill in needlework, prove that a life spent in the routine of science need not destroy the attractive human element of a woman's nature.

ANNIE J. CANNON

HARVARD COLLEGE OBSERVATORY,
CAMBRIDGE, MASS.,
June 3, 1911

SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION

THE program of the Pittsburgh meeting on June 27, 28 and 29, is as follows:

TUESDAY. Meetings at the School of Applied Science, Carnegie Technical Schools.

At 9:45 A.M. Address of welcome by Director A. A. Hamerschlag and response by President A. N. Talbot.

"Teaching English in Technical Schools," Professor S. C. Earle, Tufts College.

"The Preparation of Written Papers in Engineering Schools," Professor F. N. Raymond, University of Kansas.

"The Use of Logarithmic Diagrams in Laboratory Work," Mr. H. A. Gehring, Department of New York State Engineer.

"Highway Engineering," Professor A. H. Blanchard, Brown University.

At 2:00 P.M. Report of Committee on Teaching Mathematics to Engineering Students, Professor E. V. Huntington, Harvard University.

"Balance of Courses in Chemical Engineering," Dean C. H. Benjamin, Purdue University.

"Chemical Education for the Industries," Professor J. H. James, Carnegie Technical Schools.

A visit to the Country Club, followed by a dinner tendered by Director Hamerschlag on behalf of the Carnegie Technical Schools. During the evening President A. N. Talbot delivered his presidential address on the subject, "The Engineering Teacher and his Preparation."

WEDNESDAY. Meetings at the School of Applied Science, Carnegie Technical Schools.

At 9:30 A.M. Report of the Committee on Entrance Requirements, Professor J. J. Flather, University of Minnesota, chairman.

"All-year Session, Individual Instruction: Renewed Suggestions," Dean W. G. Raymond, University of Iowa.

"The Architecture of Engineering Schools," Professor J. M. White, University of Illinois.

"The Wentworth Institute," Director A. L. Williston, Wentworth Institute.

At 8:30 P.M. Executive session of the society and election of officers.

"The College Campus," illustrated lecture by Professor J. M. White, University of Illinois.

THURSDAY. Meetings at Thaw Hall, University of Pittsburgh.

At 9:15 A.M. Address of welcome by Chancellor S. B. McCormick and response by President A. N. Talbot.

"An Engineering Course for Underclassmen," Professors W. A. Hillebrand and S. B. Charters, Jr., Stanford University.

"Electrical Engineering Instruction," Professor E. B. Paine, University of Illinois.

"Teaching of Scientific Shop Management, with Use of Engineering School Shops as the Laboratory," Professors H. Wade Hibbard and H. S. Philbrick, University of Missouri.

"Technical Training from the Business Man's Standpoint," Mr. E. B. Raymond, vice-president of the Pittsburgh Plate Glass Co.

"Adapting Technical Graduates to the Industries," Messrs. C. F. Scott and C. R. Dooley, Westinghouse Electric and Manufacturing Co.

"Cooperative System of Engineering Education at the University of Pittsburgh," Dean F. L. Bishop, University of Pittsburgh.

At 8:30 P.M. Assemble in foyer of Carnegie Music Hall. The Pittsburgh alumni of engineering colleges were invited to meet the representatives of the faculties from their *alma maters*. A brief program was rendered upon the organ

in Music Hall, after which the members visited the Department of Fine Arts and the Museum of the Institute.

FRIDAY AND SATURDAY.

Members are invited to remain in Pittsburgh after the close of the convention to make further visits among the industries described in the handbook. Specific arrangements may be made for these visits at the secretary's office during the meeting. Special arrangements were made for the benefit of visitors in a number of cases, notably the Bureau of Mines, the Jones & Laughlin Steel Company, the Mesta Machine Company, the National Tube Company, the Westinghouse Electric and Manufacturing Company and the Westinghouse Machine Company. It is expected that engineers will be detailed to guide the visitors, and that, in some cases, special exhibits and tests will be provided.

INDIANAPOLIS MEETING OF THE AMERICAN CHEMICAL SOCIETY

THE Indiana Section made special efforts toward an unusually successful meeting beginning June 27 and lasting throughout the remainder of the week. The program was arranged as follows:

The council will meet on the afternoon of Tuesday, June 27, and after a business meeting will be taken for an automobile ride to the Indianapolis Speedway.

On Wednesday, the general session will begin and three general addresses will be given. Professor Charles Baskerville, of the College of the City of New York, will give an address on "The Chemistry of Anesthetics." Professor Edward Kremers, of the University of Wisconsin, will follow with a paper on "The Quinhydrone Hypothesis of Plant Pigmentation." The third address, by Professor W. Lash Miller, of the University of Toronto, will be upon "The Chemical Philosophy of the High-school Text-books." These papers will be followed by a complimentary luncheon at the German House and after luncheon meetings of the agricultural and food, industrial, organic and physical and inorganic divisions and the biological section will be held. In the evening a complimentary smoker will be held in the gardens of the German House.

On Thursday morning there will be meetings of the agricultural and food, industrial, organic, pharmaceutical and physical and inorganic divisions, one of the special features being the meeting of the pharmaceutical division in the new science building of the Eli Lilly & Co., followed by a luncheon there to the pharmaceutical chemists. At the same time a complimentary luncheon will be given to the remaining chemists at the Indianapolis Brewing Co., followed by an inspection of their plant. In the afternoon all of the chemists will visit the plant of the Eli Lilly & Co. On Thursday evening there will be a public lecture by Mr. A. D. Little at the German House on the "Earning Power of Chemistry." This lecture is one of the features of the meeting and is intended to interest chemists, business men and the general public alike. Following the lecture there will be a concert in the gardens of the German House.

On Friday there will be an early visit to the Indianapolis Water Works followed by meetings of the fertilizer, industrial, physical and inorganic divisions and the sections of biological and of india rubber chemistry. At 12:30 these will be followed by a complimentary luncheon at the automobile factory of Nurdyke & Marmon, followed by an inspection of their factory. Later in the afternoon visits will be made to the Encaustic Tile Co., to the Fairmount Glass Works and to E. C. Atkins & Co. In the evening the usual banquet of the summer meeting will be held.

On Saturday there will be visits to the Kingan & Co., Ltd., to the Polk Sanitary Milk Co. and to the Diamond Chain Co.; in the afternoon, to the Van Camp Packing Co.

A special endeavor is also being made to see that the ladies accompanying members have an enjoyable summer outing, including automobile rides, receptions, theater parties and luncheons.

Over one hundred and fifty papers have already been received for the divisional meetings.

CHARLES L. PARSONS,
Secretary